

Search Strategies

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Epidemiology of Gender Dysphoria

Item	Specification
Date of search	5 September 2023
Databases search	Ovid MEDLINE adapted for Embase, Scopus, Cochrane
Search terms used	Puberty blocker
	GnRH
	Gonadotrophin releasing hormone
	Children (6 to 12 years), adolescents (13 to 18 years) or teenagers
Time frame	Nov 2020 – 31 August 2023
Inclusion criteria	Any language
	Original articles
	Primary research
	Clinical outcomes

Search Strategy

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions <1946 to August 22, 2022>, adapted for Embase, Scopus, Cochrane

Search Strategy:

-
- 1 puberty blocker*.mp.
 - 2 (GnRH* and (puberty adj3 (suppress* or block*))).mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
 - 3 ("gonadotrophin releasing hormone*" and (puberty adj3 (suppress* or block*))).mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword

heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

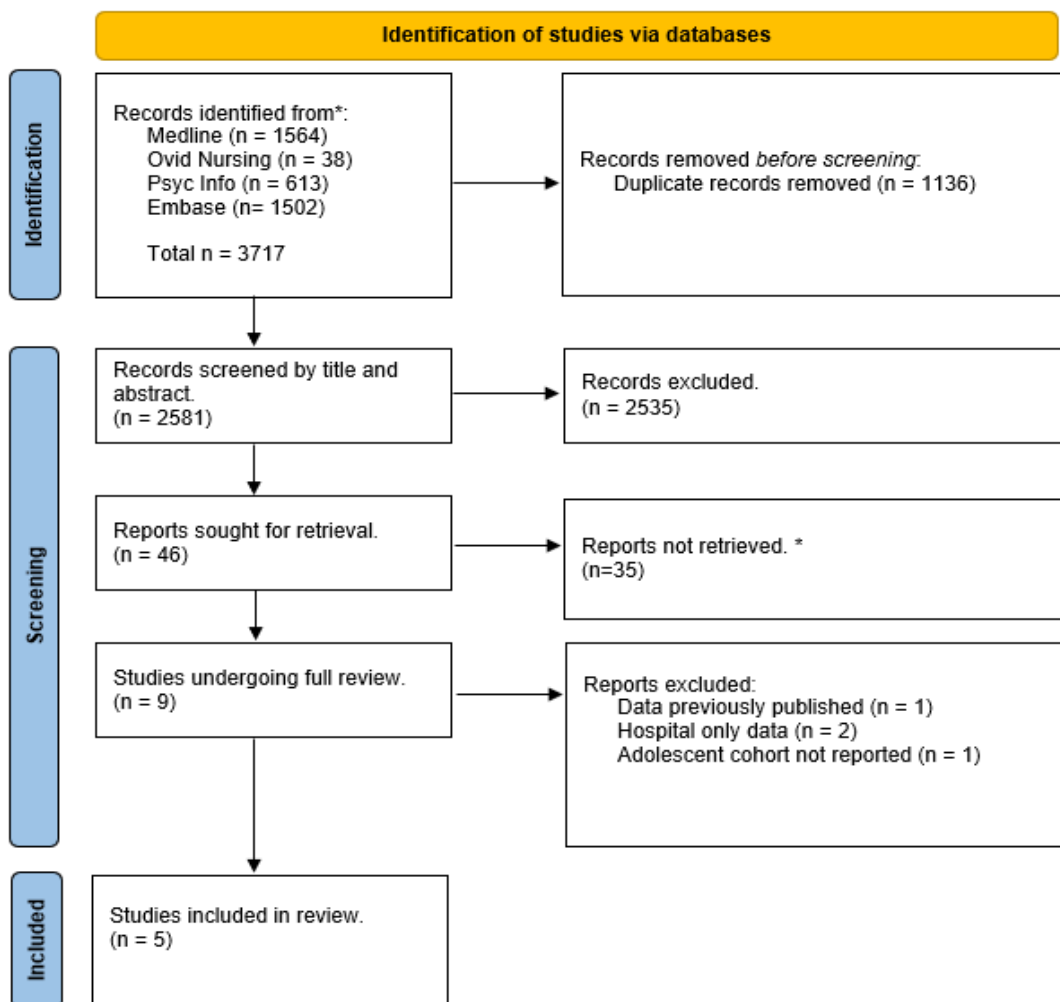
4 1 or 2 or 3

5 limit 4 to English language

6 limit 5 to ("child (6 to 12 years)" or "adolescent (13 to 18 years)")

7 5 and (teen* or adoles* or child*).mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

8 6 or 7



*Reasons for rejection included lack of population-based prevalence data, analysis of data or diagnostic accuracy only, commentaries, opinion, and treatment protocols

Figure 1 PRISMA Study Selection Epidemiology of Gender Dysphoria

The Medical Management of Gender Dysphoria using GnRH_a

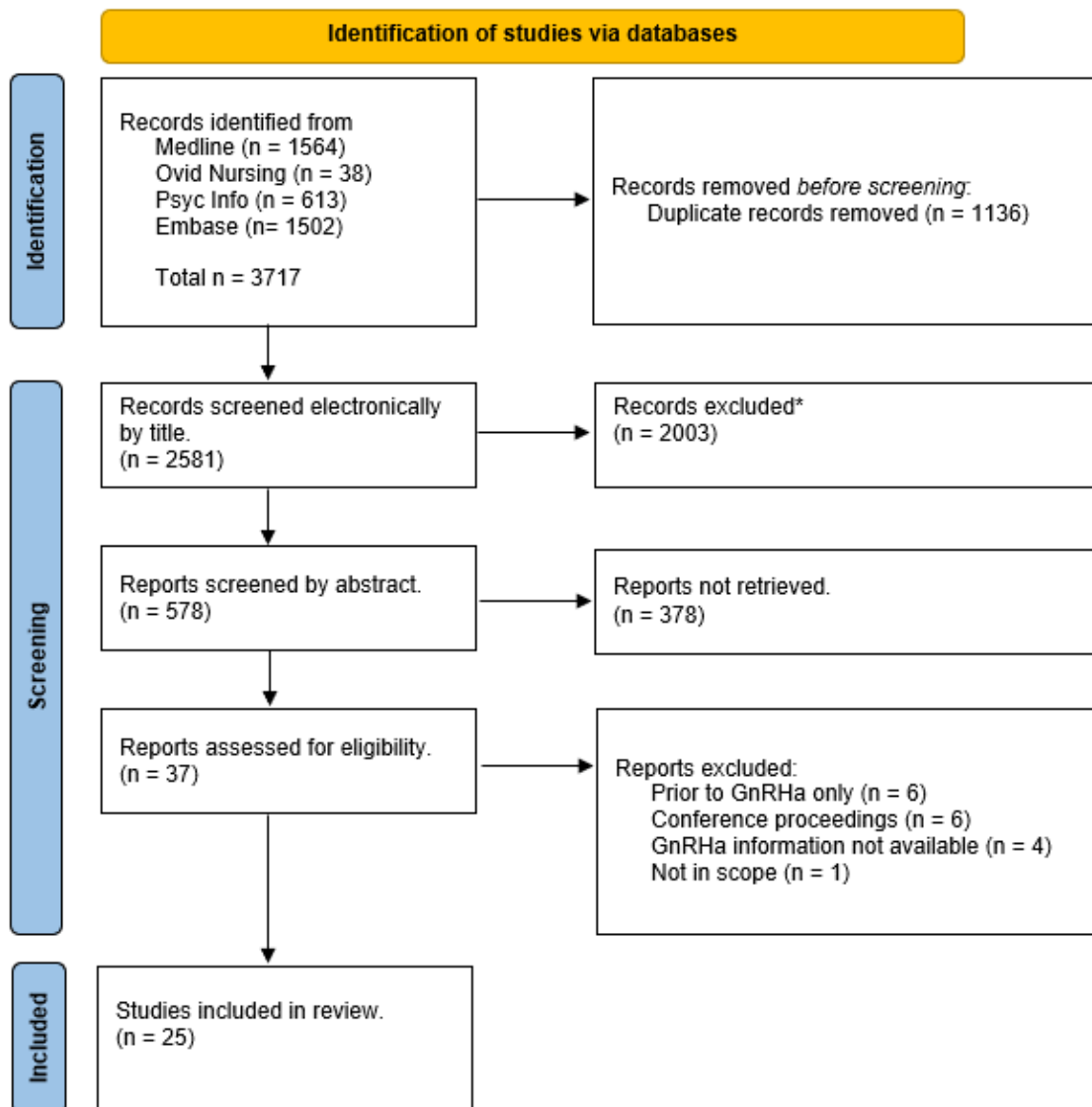
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 - 3 ("gonadotrophin releasing hormone*" and (puberty adj3 (suppress* or block*))).mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
 - 4 1 or 2 or 3
 - 5 limit 4 to English language
 - 6 limit 5 to ("child (6 to 12 years)" or "adolescent (13 to 18 years)")
 - 7 5 and (teen* or adoles* or child*).mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]



* Systematic reviews, guidelines, commentaries, errata, not in scope

Figure 2. PRISMA Study Selection Clinical implications of Puberty Blockers as an intervention for adolescents with gender dysphoria

Puberty Blockers and impact on mental health and wellbeing outcomes for adolescents with gender dysphoria

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions <1946 to July 19, 2023>, , adapted for Embase, Scopus, Cochrane (with targeted searching in Google Scholar, Index New Zealand, and NZ Research) or Search Strategy:

- 1 Gender Dysphoria/
- 2 Gender Identity/
- 3 Transsexualism/
- 4 Transgender Persons/
- 5 Health Services for Transgender Persons/
- 6 exp Sex Reassignment Procedures/
- 7 (gender* adj3 (dysphori* or affirm* or incongruen* or identi* or disorder* or confus* or minorit* or queer*)).tw.
- 8 (transgend* or transex* or transsex* or transfem* or transwom* or transma* or transmen* or transperson* or transpeopl*).tw.
- 9 (trans or crossgender* or cross-gender* or crosssex* or cross-sex* or genderqueer*).tw.
- 10 ((sex or gender*) adj3 (reassign* or chang* or transform* or transition*)).tw.
- 11 (male-to-female or m2f or female-to-male or f2m).tw.
- 12 "Sexual and Gender Disorders"/
- 13 or/1-12
- 14 Gonadotropin-Releasing Hormone/
- 15 (pubert* adj3 block*).ti,ab.
- 16 ((gonadotrophin or gonadotropin) and releasing).ti,ab.
- 17 (GnRH adj2 analog*).ti,ab.
- 18 GnRH*.ti,ab.
- 19 "GnRH agonist*".ti,ab.
- 20 14 or 15 or 16 or 17 or 18 or 19
- 21 13 and 20
- 22 (adolescen* or pubescen* or prepubescen* or pre-pubescen* or pubert* or prepubert* or pre-pubert* or teen* or preteen* or pre-teen* or juvenil* or youth* or under-age*).ti,ab.
- 23 Adolescent/ or Adolescent Behavior/ or Adolescent Health/
- 24 Puberty/
- 25 (child* or minor or minors or boy* or girl* or kid or kids or young*).ti,ab.
- 26 minors/
- 27 exp Child/ or exp Child Behavior/ or Child Health/ or Child Welfare/
- 28 22 or 23 or 24 or 25 or 26 or 27
- 29 21 and 28
- 30 puberty blocker*.mp.
- 31 (GNrH* and (puberty adj3 (suppress* or block*))).mp.
- 32 (("gonadotrophin releasing hormone*" or "gonadotrophin releasing hormone*") and (puberty adj3 (suppress* or block*))).mp
- 33** 30 or 31 or 32
- 34 29 or 33
- 35 psychosocial.mp. or exp Psychosocial Functioning/
- 36 mental health.mp. or exp Mental Health/
- 37 self-harm.mp. or Self-Injurious Behavior/

38 Suicidal Ideation/ or Suicide/ or suicid*.mp. or Suicide, Attempted/
39 exp Anxiety/ or exp Stress, Psychological/ or anxi*.mp. or exp Anxiety Disorders/
40 exp Depression/ or depression.mp.
41 self-esteem.mp. or Self Concept/
42 employment.mp. or Employment/
43 Academic Success/ or exp Educational Status/ or educational outcome*.mp.
44 (bully* or cyberbully* or cyber-bully*).mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms, population supplementary concept word, anatomy supplementary concept word]
45 "social media".mp. or exp Social Media/
46 family violence.mp. or Domestic Violence/
47 family reject*.mp.
48 exp Family Relations/
49 maori.mp. or Maori People/
50 (pasifik* or samoa* or tonga* or fiji* or cook island* or Niue* or hawaiian* or polynesian* or micronesian* or melanesian* or Papua New Guinea or Solomon Islands or Kiribati or Tokelau* or ("pacific" and (zealand or aotearoa or maori)) or ("pacific" and austral*)).mp.
51 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50
52 34 and 51
53 limit 52 to (english language and yr="1990 -Current")

Number of Results

PsychInfo=57

Medline = 91

Scopus = 86

Embase = 231

Total = 465

Duplicates and false drops removed = 165

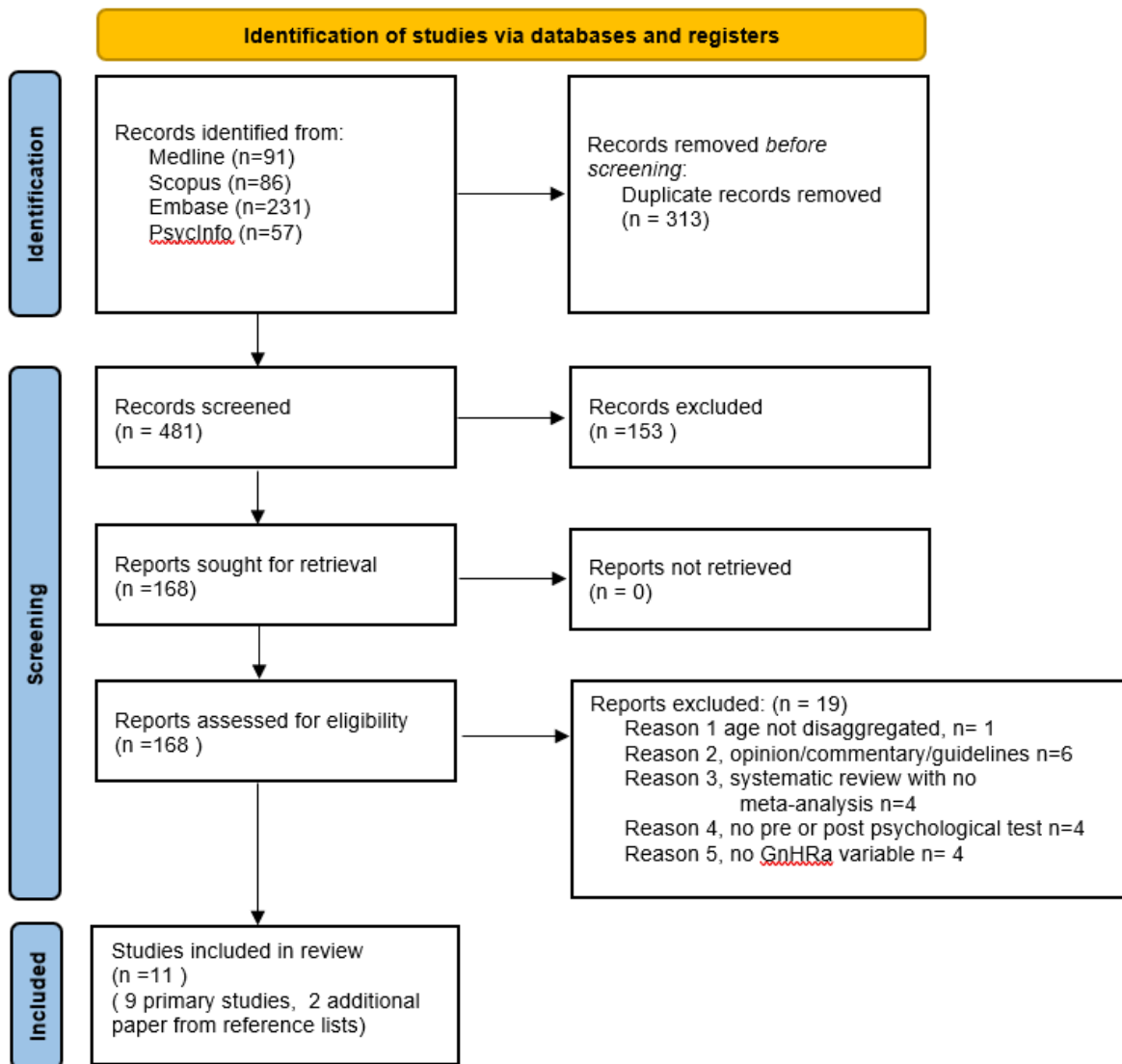


Figure 3. PRISMA Study Selection for Mental Health and Wellbeing Outcomes for adolescents with Gender Dysphoria

Mental health and wellbeing interventions for gender dysphoria in adolescents.

First Search Strategy

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions <1946 to October 04, 2023>, adapted for PsycInfo, Scopus, Embase

Search Strategy:

- 1 Gender Dysphoria/
- 2 Transsexualism/
- 3 Transgender Persons/
- 4 Health Services for Transgender Persons/
- 5 (gender* adj3 (dysphori* or affirm* or incongruen* or disorder* or confus*)).mp.
- 6 (transgend* or transex* or transsex* or transfem* or transwom* or transma* or transmen* or transperson* or transpeopl*).ab,ti.
- 7 (takatapui or "Fa'afafine" or "Fa'afatama").mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms, population supplementary concept word, anatomy supplementary concept word]
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7
- 9 psychosocial.mp. or exp Psychosocial Functioning/ or psycho-social.mp.
- 10 mental health.mp. or exp Mental Health/
- 11 (self-harm or Self-Injurious Behavior).mp.
- 12 Suicidal Ideation/ or Suicide/ or suicid*.mp. or Suicide, Attempted/
- 13 exp Anxiety/ or exp Stress, Psychological/ or anxi*.mp. or exp Anxiety Disorders/ (494405)
- 14 exp Depression/ or depression.mp.
- 15 self-esteem.mp. or Self Concept/
- 16 (belonging* or (social adj3 participat*)).mp.
- 17 "quality of life".mp. or "Quality of Life"/ or wellbeing.mp. or well-being.mp.
- 18 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
- 19 8 and 18
- 20 exp qualitative research/
- 21 qualitative.ab,ti.
- 22 grounded theory.mp. or Grounded Theory/
- 23 action research.mp.
- 24 ethnograph*.mp.
- 25 Phenomenolog*.mp.
- 26 interview*.mp.
- 27 20 or 21 or 22 or 23 or 24 or 25 or 26
- 28 19 and 27
- 29 limit 28 to ("child (6 to 12 years)" or "adolescent (13 to 18 years)")
- 30 youth.mp.
- 31 Adolescent/ or adoles*.mp.
- 32 ("young adult*" or "young people" or "young person").mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease

supplementary concept word, unique identifier, synonyms, population supplementary concept word, anatomy supplementary concept word]

33 teen*.mp.

34 puberty.mp. or Puberty/

35 30 or 31 or 32 or 33 or 34

36 28 and 35

37 29 or 36

38 interven*.mp.

39 treat*.mp.

40 38 or 39

41 37 and 40

42 limit 41 to (english language and yr="1990 -Current")

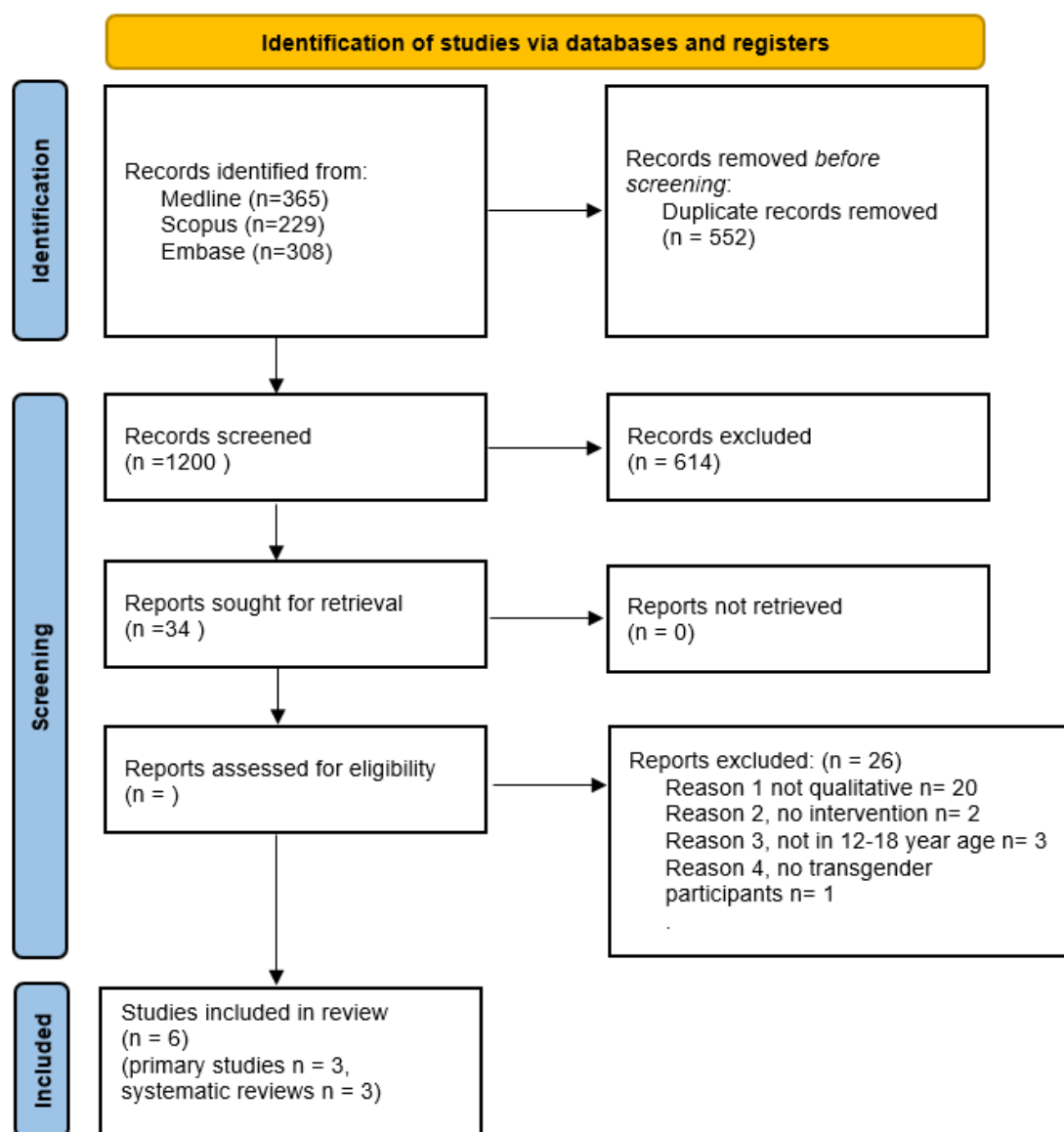


Figure 4. PRISMA Study Selection (search 1) Mental Health and Wellbeing Interventions for adolescents experiencing Gender Dysphoria

Second Search Strategy

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions <1946 to October 04, 2023>, adapted for PsycInfo, Scopus, Embase

Search Strategy:

- 1 Gender Dysphoria/
- 2 Transsexualism/
- 3 Transgender Persons/
- 4 Health Services for Transgender Persons/
- 5 (gender* adj3 (dysphori* or affirm* or incongruen* or disorder* or confus*)).mp.
- 6 (transgend* or transex* or transsex* or transfem* or transwom* or transma* or transmen* or transperson* or transpeopl*).ab,ti.
- 7 (takatapui or "Fa'afafine" or "Fa'afatama").mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms, population supplementary concept word, anatomy supplementary concept word]
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7
- 9 psychosocial.mp. or exp Psychosocial Functioning/ or psycho-social.mp.
- 10 mental health.mp. or exp Mental Health/
- 11 (self-harm or Self-Injurious Behavior).mp.
- 12 Suicidal Ideation/ or Suicide/ or suicid*.mp. or Suicide, Attempted/
- 13** exp Anxiety/ or exp Stress, Psychological/ or anx*.mp. or exp Anxiety Disorders/ (494405)
- 14 exp Depression/ or depression.mp.
- 15 self-esteem.mp. or Self Concept/
- 16 (belonging* or (social adj3 participat*)).mp.
- 17 "quality of life".mp. or "Quality of Life"/ or wellbeing.mp. or well-being.mp.
- 18 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
- 19 8 and 18
- 20 exp qualitative research/
- 21 qualitative.ab,ti.
- 22 grounded theory.mp. or Grounded Theory/
- 23 action research.mp.
- 24 ethnograph*.mp.
- 25 Phenomenolog*.mp.
- 26 interview*.mp.
- 27 20 or 21 or 22 or 23 or 24 or 25 or 26
- 28 19 and 27
- 29 limit 28 to ("child (6 to 12 years)" or "adolescent (13 to 18 years)")
- 30 youth.mp.
- 31 Adolescent/ or adoles*.mp.
- 32 ("young adult*" or "young people" or "young person").mp. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms, population supplementary concept word, anatomy supplementary concept word]
- 33 teen*.mp.

- 34 puberty.mp. or Puberty/
- 35 30 or 31 or 32 or 33 or 34
- 36 28 and 35
- 37 29 or 36
- 38 interven*.mp.
- 39 treat*.mp.
- 40 38 or 39
- 41 37 and 40
- 42 limit 41 to (english language and yr="1990 -Current")

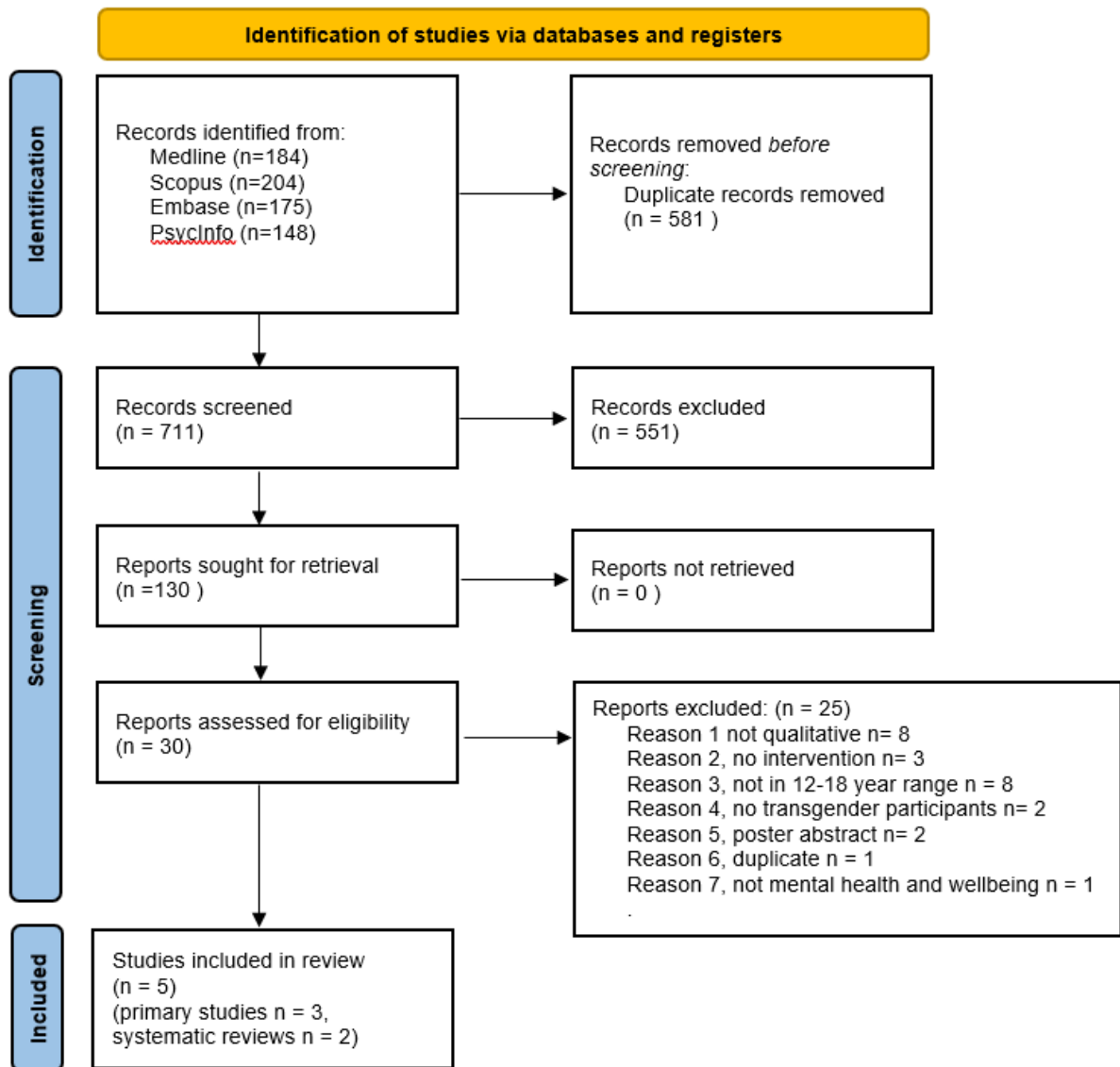


Figure 5. PRISMA Study Selection (search 2) Mental Health and Wellbeing interventions for adolescents experiencing gender dysphoria